CW#5: Exploring Slope

Geometry

Friday, September 11th, 2015

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

1. Compare Data Tables:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A:   |  |  |  |  | | --- | --- | --- | --- | | x | 1 | 2 | 3 | | f(x) | 5 | 5 | 5 | | B:   |  |  |  |  | | --- | --- | --- | --- | | x | 1 | 1 | 1 | | g(x) | 2 | 3 | 4 | |
| 1. What are the similarities between the two tables? 2. What are the differences? 3. Create the equation for f(x). Explain how you found the equation. 4. Create the equation for g(x). Explain how you found the equation. 5. What is the slope of f(x)? What is the slope of g(x)? | |

1. **Burgers:** At Burger King you can get 2 Whoppers for $5.

|  |  |  |
| --- | --- | --- |
| How many burgers could you get with $40? | | How much would 20 burgers cost? |
| Graph this situation.  How should you label your axes?  Does this graph make a line? Why does this make sense?  What is the slope? What does this number mean? | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |

1. **Linear Equations:**

A line passes through the point (4, 1) and has a slope of .

|  |
| --- |
| Find the value of *c* so that the point  lies on the line. |

1. **Filling Up:**

|  |
| --- |
| You arrive at a gas station and pay $50 for gas. This gives you 12.28 gallons of gas.   * What can you figure out from this information? * Can you determine the price of a gallon of gas? * Can you determine the capacity of your gas tank? |

1. **Earning Money:**

|  |
| --- |
| On the 8th day of summer, Ricky had $212 in his bank account. On the 40th day of summer, he had $852.   * How much money did he have on the 20th day? * After how many days would he have $1,000? |
| *What assumptions did you make when solving this problem? Explain.* |